DOS-IIIB 26XX LINE PRINTER DRIVER (DVR12)
(2610A, 2614A, 2607A, 2613A, 2618A LINE PRINTER)
(24307B - REV. 1446)

BINARY TAPE	24307-16011
SOURCE TAPE	24307-18068
SOURCE LISTING	24307-19007

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0001                    ASMB,L,C,R,B
**  NO ERRORS*
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0001                    ASMB,L,C,R,B
0003  00000                     NAM DVR12,4,0
0004                            ENT I.12,C.12


0006*       INITIATION SECTION


0008  00000 000000  I.12  NOP             INITIATION ENTRY
0009  00001 016250R       JSB SETIO       CONFIGURE DVR FOR CURRENT CHAN
0010  00002 160213        LDA EQT9,I      LOAD REQUEST CONTROL CODE
0011  00003 012466R       AND M1777       MASK IN FUNC CODE & REQ CODE
0012  00004 050056        CPA D3          SKIP IF NOT CLEAR REQUEST
0013  00005 026030R       JMP CLEAR
0014  00006 052475R       CPA B603        SKIP IF NOT DYNAMIC STATUS REQ.
0015  00007 026031R       JMP DYNAM
0016  00010 016421R       JSB STAT        CHECK AND UPDATE PRINTER STATUS
0017  00011 026033R       JMP NREDI       PRINTER NOT READY
0018  00012 160206        LDA EQT4,I      RESET TOF AND EOT STATUS BITS
0019  00013 012467R       AND M7637
0020  00014 170206        STA EQT4,I
0021  00015 160207        LDA EQT5,I      CLEAR TIMER AND SLEW BITS
0022  00016 010045        AND M7772
0023  00017 170207        STA EQT5,I
0024*
0025  00020 160213        LDA EQT9,I      ISOLATE REQUEST CODE
0026  00021 010072        AND M0077
0027  00022 050055        CPA D2          SKIP IF NOT A WRITE REQUEST
0028  00023 026121R       JMP WRITE       GO PROCESS WRITE REQUEST
0029  00024 050056        CPA D3          SKIP IF NOT A CONTROL REQUEST
0030  00025 026036R       JMP CNTRL       GO PROCESS CONTROL REQUEST
0031  00026 002404        CLA,INA         REQ CODE ERR, SET A=1 AND RETURN
0032  00027 126000R       JMP I.12,I      REQUEST CODE ERROR EXIT
0033*
0034  00030 106700  CLEAR CLC 0           CLEAR DEVICE
0035  00031 016427R DYNAM JSB VSTAT       UPDATE PRINTER STATUS
0036  00032 026115R       JMP EXIT4
0037*
0038  00033 016427R NREDI JSB VSTAT       UPDATE PRINTER STATUS
0039  00034 060056        LDA D3          SET PRINTER NOT READY CODE IN A
0040  00035 126000R       JMP I.12,I      RETURN
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0042*     PROCESS CONTROL REQUEST

0044  00036 160213  CNTRL LDA EQT9,I    FETCH CONTROL WORD
0045  00037 012465R       AND M1770     ISOLATE FUNCTION CODE
0046  00040 052476R       CPA FUN11     SKIP IF NOT VALID CONTROL FUNC
0047  00041 002001       RSS
0048  00042 026117R       JMP EXIT2     BAD FUNCTION CODE; EXIT
0049  00043 160214       LDA EQT10,I   LOAD CONTROL PARAMETER
0050  00044 002003       SZA,RSS       SKIP IF PRAM.NE.0
0051  00045 026074R       JMP SETSP     PRAM=0; GO SET SUPPRESS BIT
0052  00046 006400       CLB           SET BUF. LEN. AND CHAR. COUNT
0053  00047 174215       STB EQT11,I    TO 0 FOR CORRECT COMPLETION
0054  00050 174216       STB EQT12,I    SECTION EXIT
0055  00051 002020       SSA           TEST FOR PAGE EJECT (PRAM<0)
0056  00052 026177R       JMP PEJCT     EXECUTE PAGE EJECT
0057  00053 042472R       ADA ND70      ADD -70 TO PRAM
0058  00054 002021       SSA,RSS       SKIP IF PRAM VALID (<70)
0059  00055 026117R       JMP EXIT2     BAD PARAMETER; RETURN
0060  00056 040057       ADA D4        ADD 4 TO PRAM; NET DIF IS -66
0061  00057 002021       SSA,RSS       SKIP IF NOT VFU CHANNEL 9 - 12
0062  00060 026104R       JMP V9,12
0063  00061 040055       ADA D2        ADD 2 TO PRAM; NET DIF IS -64
0064  00062 002021       SSA,RSS       SKIP IF NOT PAGE EJ MODE CONTROL
0065  00063 026107R       JMP PEJMC
0066  00064 040055       ADA D2        ADD 2 TO PRAM; NET  DIFF IS -62
0067  00065 002021       SSA,RSS       SKIP  IF NOT VFU CHANNEL 1-2
0068  00066 026100R       JMP V1,2
0069  00067 040061       ADA D6        ADD 6 TO  PRAM; NET DIFF IS -56
0070  00070 002021       SSA,RSS       SKIP  IF NOT VFU CHANNEL 3-8
0071  00071 026102R       JMP V3,8
0072  00072 016441R       JSB SLEW      MUST BE LINE SLEW CONTROL REQ.
0073  00073 026206R       JMP EXIT0
0074*
0075  00074 160207  SETSP LDA EQT5,I    LOAD DRIVER STATUS
0076  00075 032474R       IOR BIT7      SET SPACE SUPPRESS BIT
0077  00076 170207       STA EQT5,I
0078  00077 026115R       JMP EXIT4     IMMEDIATE COMPLETION RETURN
0079*
0080  00100 020054  V1,2  XOR M0001     MAP VFU CHANS. 1-2 TO PROPER VAL
0081  00101 026105R       JMP VOUT
0082*
0083  00102 040055  V3,8  ADA D2        MAP VFU CHANS 3-8 TO PROPER VALU
0084  00103 026105R       JMP VOUT
0085*
0086  00104 040063  V9,12 ADA  D8        MAP VFU CHANS 9-12 TO PROPER VA
0087  00105 032503R VOUT  IOR CVFU       SET VFU AND PAPER COMMAND BITS
0088  00106 026205R       JMP EXP0      GO OUTPUT VFU COMMAND
0089*
0090  00107 001000  PEJMC ALS           SHIFT PAGE EJ MODE BIT TO BIT1
0091  00110 070001       STA B         SAVE PAGE EJECT MODE BIT IN B
0092  00111 160207       LDA EQT5,I    CLEAR PAGE EJECT MODE STATUS BIT
0093  00112 010050       AND M7775
0094  00113 030001       IOR B         SET NEW VALUE OF PAGE EJ. MODE
0095  00114 170207       STA EQT5,I
0096  00115 060057  EXIT4 LDA D4        SET IMMEDIATE COMPLETION CODE
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0097  00116 126000R        JMP I,12,I     RETURN
0098*
0099  00117 060055  EXIT2  LDA D2         CONTROL REQUEST ERROR
0100  00120 126000R        JMP I,12,I     RETURN
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0102*     PROCESS A PRINT REQUEST

0104  00121 160207  WRITE LDA EQT5,I    ISOLATE SPACE SUPPRESS BIT
0105  00122 012474R       AND BIT7
0106  00123 002003       SZA,RSS       SKIP IF SUPPRESS SPACE BIT SET
0107  00124 026132R       JMP APEJM     NO SUPPRESS;  GO TEST AUTO PAGE
0108  00125 120207       XOR EQT5,I    CLEAR SPACE SUPPRESS BIT
0109  00126 170207       STA EQT5,I
0110  00127 062500R       LDA SUPLT     SET LINE TERMINATOR TO SPACE SUP
0111  00130 170217       STA EQT13,I
0112  00131 026140R       JMP TLLEN     GO TEST LINE LENGTH
0113  00132 160207  APEJM LDA EQT5,I    CHECK IF AUTO PAGE EJECT MODE
0114  00133 010055       AND BIT1
0115  00134 066502R       LDB SSLT      READY SINGLE SPACE CODE
0116  00135 002003       SZA,RSS       SKIP IF SINGLE SPACE DESIRED
0117  00136 066501R       LDB SSAPE     CHANGE TO SS WITH AUTO PAGE EJ.
0118  00137 174217       STB EQT13,I
0119  00140 160215  TLLEN LDA EQT11,I   LOAD BUFFER LENGTH
0120  00141 002020       SSA           SKIP IF BUF LEN POS (WORD COUNT)
0121  00142 026145R       JMP CCSTR     GO STORE CHARACTER COUNT
0122  00143 001000       ALS           CONVERT POS WORD COUNT TO NEG.
0123  00144 003004       CMA,INA        CHARACTER COUNT
0124  00145 170216  CCSTR STA EQT12,I   STORE CHARACTER COUNT
0125  00146 002003       SZA,RSS       SKIP IF NOT ZERO LINE LENGTH
0126  00147 026204R       JMP LTERM     GO PROCESS END OF LINE
0127  00150 160214       LDA EQT10,I   CONVERT BUFFER ADDRESS TO
0128  00151 001200       RAL            BUFFER CHARACTER ADDRESS
0129  00152 170214       STA EQT10,I
0130  00153 160213       LDA EQT9,I    ISOLATE CONTROL BIT 7 (SS=1)
0131  00154 012474R       AND BIT7
0132  00155 002003       SZA,RSS       SKIP IF SINGLE SPACE
0133  00156 016350R       JSB CKNAM     SKIP IF NOT SYSTEM PROGRAM
0134  00157 026175R       JMP EXL0      SINGLE SPACE NEXT LINE, NO CC
0135  00160 134216       ISZ EQT12,I   INCREMENT CHARACTER COUNTER
0136  00161 134214       ISZ EQT10,I   INCREMENT BUFFER CHAR. ADDRESS
0137  00162 164214       LDB EQT10,I   LOAD BUFFER CHAR ADDRESS
0138  00163 004065       CLE,ERB       CONVERT TO WORD ADDRESS
0139  00164 160001       LDA B,I       GET 1ST CHAR IN BUFFER
0140  00165 010075       AND HIBYT     MASK OUT LOWER BYTE
0141  00166 052507R       CPA EJECT     COMPARE TO PAGE EJECT (CC="1")
0142  00167 026177R       JMP PEJCT
0143  00170 052506R       CPA DOUBL     COMPARE TO DOUBLE SPACE (CC="0")
0144  00171 026204R       JMP LTERM     GO OUTPUT EXTRA LINE TERMINATOR
0145  00172 066500R       LDB SUPLT     READY SPACE SUPPRESS LINE TERM.
0146  00173 052505R       CPA STAR      COMPARE CC TO SPACE SUPPRESS "*"
0147  00174 174217       STB EQT13,I   STORE SPACE SUPPRESS LINE TERM.
0148  00175 016301R EXL0  JSB LOUT      OUTPUT LINE
0149  00176 026206R       JMP EXIT0     TAKE "OPERATION COMPLETE" RETURN
0150*
0151  00177 160206  PEJCT LDA EQT4,I    LOAD PRINTER STATUS
0152  00200 030067       IOR BIT6      SET TOF STATUS BIT
0153  00201 170206       STA EQT4,I
0154  00202 062503R       LDA PEJEC     EXECUTE PAGE EJECT
0155  00203 026205R       JMP EXP0
0156*
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0157  00204 160217  LTERM LDA EQT13,I   READY LINE TERM. FOR OUTPUT
0158  00205 016457R EXP0  JSB POUT      OUTPUT CONTENTS OF A REGISTER
0159  00206 002400  EXIT0 CLA           SET OPERATION INITIATED CODE
0160  00207 126000R       JMP I,12,I    RETURN
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0162*     COMPLETION / CONTINUATION  SECTION

0164  00210 000000  C.12  NOP             COMPLETION/CONTINUATION ENTRY
0165  00211 016250R       JSB SETIO       CONFIGURE I/O INSTRUCTIONS
0166  00212 016421R       JSB STAT        CHECK STATUS AND UPDATE
0167  00213 026240R       JMP NREDC       DEVICE NOT READY
0168  00214 160207        LDA EQT5,I
0169  00215 000010        SLA             SKIP IF TIMER FLAG NOT SET
0170  00216 026243R       JMP TFLAG       GO PROCESS TIME-OUT CONTINUATION
0171  00217 010057        AND BIT2        ISOLATE SLEW BIT
0172  00220 002003        SZA,RSS         SKIP IF SLEW BIT SET
0173  00221 026226R       JMP DOUT        GO CHECK LINE OUTPUT
0174  00222 120207        XOR EQT5,I      CLEAR SLEW BIT
0175  00223 170207        STA EQT5,I
0176  00224 016441R       JSB SLEW        SLEW MORE LINES
0177  00225 026246R       JMP EXITC       TAKE CONTINUATION EXIT
0178  00226 160216  DOUT  LDA EQT12,I     LOAD CHARACTER COUNT
0179  00227 002002        SZA             SKIP IF NO MORE DATA
0180  00230 026245R       JMP EXLC        GO FINISH LINE OUTPUT
0181  00231 016427R       JSB VSTAT       UPDATE PRINTER STATUS
0182  00232 164215        LDB EQT11,I     SET B TO POSITIVE WORD OR
0183  00233 006020        SSB              CHARACTER COUNT.
0184  00234 007004        CMB,INB
0185  00235 106700  CLC2  CLC 0           CLEAR DEVICE CONTROL
0186  00236 002400        CLA             SET SUCCESSFUL COMPLETION CODE
0187  00237 126210R       JMP C.12,I      COMPLETION RETURN
0188*
0189  00240 016427R NREDC JSB VSTAT       UPDATE LINE PRINTER STATUS
0190  00241 002404        CLA,INA         SET DEVICE NOT READY CODE
0191  00242 126210R       JMP C.12,I      RETURN
0192*
0193  00243 010051  TFLAG AND M7776       CLEAR TIMER FLAG
0194  00244 170207        STA EQT5,I
0195  00245 016301R EXLC  JSB LOUT        FINISH LINE OUTPUT
0196  00246 036210R EXITC ISZ C.12        TAKE CONTINUATION EXIT
0197  00247 126210R       JMP C.12,I      RETURN
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0199*      CONFIGURATOR SUBROUTINE

0201  00250 000000  SETIO NOP
0202  00251 052300R       CPA LP          SKIP IF DVR NOT PROPERLY CONFIG,
0203  00252 126250R       JMP SETIO,I     RECONFIGURATION NOT NECESSARY
0204  00253 072300R       STA LP          SAVE NEW CHANNEL NUMBER
0205  00254 032277R       IOR STF         FORM STF INSTRUCTION
0206  00255 072307R       STA LF1
0207  00256 040067        ADA B100        FORM SFC INSTRUCTION
0208  00257 072334R       STA TIM1
0209  00260 040067        ADA B100        FORM SFS INSTRUCTION
0210  00261 072317R       STA LOU1
0211  00262 042474R       ADA B200        FORM LIA INSTRUCTION
0212  00263 072433R       STA VS1
0213  00264 072422R       STA S1
0214  00265 040067        ADA B100        FORM OTA INSTRUCTION
0215  00266 072460R       STA POUT+1
0216  00267 072321R       STA OUTCH
0217  00270 042476R       ADA B1100       FORM STC,C INSTRUCTION
0218  00271 072461R       STA POUT+2
0219  00272 072322R       STA L2
0220  00273 042477R       ADA B3000       FORM CLC INSTRUCTION
0221  00274 072235R       STA CLC2
0222  00275 072030R       STA CLEAR
0223  00276 126250R       JMP SETIO,I


0225  00277 102100  STF    STF 0
0226  00300 000000  LP     OCT 0           CHANNEL OF INTERRUPT
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0228*      SUBROUTINE TO OUTPUT A LINE

0230  00301 000000  LOUT   NOP             ROUTINE TO OUTPUT A LINE
0231  00302 160216         LDA EQT12,I     PICK UP NUMBER OF CHARS
0232  00303 002003         SZA,RSS         SKIP IF ANY LEFT
0233  00304 026326R        JMP EOL         NO, GO OUTPUT END-OF-LINE CHAR.
0234  00305 164214         LDB EQT10,I     PICK UP ADDRESS OF CHAR
0235  00306 004065         CLE,ERB         CONVERT TO WORD ADDRESS
0236  00307 102100  LF1    STF 0           SET FLAG FOR 1ST PASS THRU LOOP
0237  00310 026313R        JMP LOAD
0238  00311 002240  NXTCH  SEZ,CME         INCREMENT WORD ADDRESS
0239  00312 006004         INB
0240  00313 160001  LOAD   LDA B,I         PICK UP WORD CONTAINING CHAR
0241  00314 002041         SEZ,RSS         SKIP IF RIGHT CHAR
0242  00315 001727         ALF,ALF         ROTATE
0243  00316 010073         AND M0177       MASK OFF ANY EXTRANEOUS BITS
0244  00317 102300  LOU1   SFS 0           SKIP IF PREV. CHAR WAS ACCEPTED
0245  00320 016331R        JSB TIME        NO, GO WAIT
0246  00321 102600  OUTCH  OTA 0           OUTPUT CHARACTER IN A REG
0247  00322 103700  L2     STC 0,C
0248  00323 134216         ISZ EQT12,I     SKIP IF NO MORE CHARS TO PRINT
0249  00324 026311R        JMP NXTCH       REPEAT FOR NEXT CHAR.
0250  00325 016331R        JSB TIME        GO WAIT FOR LAST CHAR ACCEPT
0251  00326 160217  EOL    LDA EQT13,I     GET LINE TERMINATOR
0252  00327 016457R        JSB POUT        OUTPUT LINE TERMINATOR
0253  00330 126301R        JMP LOUT,I      RETURN

0255*      TIME-OUT COROUTINE

0257  00331 000000  TIME   NOP
0258  00332 072347R        STA TCHAR       SAVE CHARACTER TEMPORARILY
0259  00333 062473R        LDA ND100       PICK UP LOOP COUNTER
0260  00334 102200  TIM1   SFC 0           SKIP IF CHAR NOT ACCEPTED
0261  00335 026345R        JMP TIM2
0262  00336 002024         SSA,INA         SKIP IF DELAY TIME EXCEEDED
0263  00337 026334R        JMP TIM1
0264  00340 130207         IOR EQT5,I      A=1; SET TIME-OUT FLAG
0265  00341 170207         STA EQT5,I
0266  00342 005600         ELB             RESTORE CHARACTER ADDRESS TO EQT
0267  00343 174214         STB EQT10,I
0268  00344 126301R        JMP LOUT,I      TIME-OUT RETURN
0269  00345 062347R  TIM2   LDA TCHAR       RESTORE CHARACTER TO A REG.
0270  00346 126331R        JMP TIME,I      RETURN TO CALLING CODE
0271  00347 000000  TCHAR  BSS 1
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0273*      SUBROUTINE TO COMPARE CURRENT PROGRAM NAME
0274*      WITH SYSTEM PROGRAM NAMES.


0276  00350 000000  CKNAM NOP             ROUTINE TO CHECK FOR SYS. PROG.
0277  00351 060046        LDA NAMCT       SET UP COUNTER TO EXECUTE LOOP
0278  00352 072400R       STA CNTR         ONCE FOR EACH SYSTEM PROGRAM
0279  00353 066420R       LDB TADR        ADR. OF SYS. PROG. NAME TABLE
0280  00354 060141        LDA EXPG        1ST WORD OF CURRENT PROG NAME
0281  00355 150001  WORD1 CPA B,I         COMPARE 1ST WORD OF CURRENT PROG
0282  00356 026363R       JMP WORD2       FIRST WORD MATCH FOUND
0283  00357 044056        ADB D3          SKIP TO 1ST WORD OF NEXT SYS NAM
0284  00360 036400R       ISZ CNTR        SKIP IF ALL NAMES TRIED
0285  00361 026355R       JMP WORD1       GO COMPARE NEXT SYS PROG NAME
0286  00362 026376R       JMP NOCOM       NAME NOT RECOGNIZED
0287  00363 006004  WORD2 INB
0288  00364 060142        LDA EXPG+1      LOAD 2ND WORD OF CURR. PROG NAME
0289  00365 150001        CPA B,I
0290  00366 002001        RSS
0291  00367 026376R       JMP NOCOM       NAME NOT RECOGNIZED
0292  00370 006004        INB             COMPARE 3RD WORD
0293  00371 060143        LDA EXPG+2      LOAD 3RD WORD OF CURR. PROG NAME
0294  00372 010075        AND HIBYT       CLEAR LOWER BYTE OF 3RD WORD
0295  00373 032504R       IOR BLANK       SET LOW BYTE TO BLANK CHAR
0296  00374 150001        CPA B,I         SKIP IF NAME NOT RECOGNIZED
0297  00375 126350R       JMP CKNAM,I     NAME RECOGNIZED EXIT
0298  00376 036350R NOCOM ISZ CKNAM
0299  00377 126350R       JMP CKNAM,I     NOT RECOGNIZED EXIT
0300  00400 000000  CNTR  BSS 1


0302  00401 040523  NTAB  ASC 3,ASMB      TABLE OF SYSTEM PROGRAM NAMES
      00402 046502
      00403 020040
0303  00404 046117        ASC 3,LOADR
      00405 040504
      00406 051040
0304  00407 045117        ASC 3,JOBPR
      00410 041120
      00411 051040
0305  00412 043124        ASC 3,FTN
      00413 047040
      00414 020040
0306  00415 040514        ASC 3,ALGOL
      00416 043517
      00417 046040
0307  00420 000401R TADR  DEF NTAB
0308  00046       NAMCT EQU 46B         NEG # OF SYS. PROG. NAMES (=5)
0309  00141       EXPG  EQU 141B        1ST WORD OF CURRENT PROG NAME
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0311* PRINTER STATUS CHECKING AND UPDATE SUBROUTINES

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0313  00421 000000  STAT  NOP           CHECK FOR PRINTER READY
0314  00422 102500  S1    LIA 0         FETCH HARDWARE STATUS
0315  00423 012464R       AND M1401     CLEAR ALL BITS EXCEPT 15, 14, 0
0316  00424 052463R       CPA M1001     SKIP IF STATUS NOT GOOD
0317  00425 036421R       ISZ STAT      SET GOOD STATUS RETURN
0318  00426 126421R       JMP STAT,I    STATUS GOOD RETURN


0320  00427 000000  VSTAT NOP           ROUTINE TO UPDATE PRINTER STATUS
0321  00430 160206        LDA EQT4,I    CLEAR LOWEST 5 BITS OF LP STATUS
0322  00431 012470R       AND M7740     , SAVE IN B TEMPORARILY
0323  00432 070001        STA B
0324  00433 102500  VS1   LIA 0         FETCH HARDWARE STATUS
0325  00434 001700        ALF           MOVE STATUS BITS TO A REG 4-0
0326  00435 010071        AND M0037     CLEAR ALL OTHER BITS
0327  00436 030001        IOR B         PUT NEW BITS INTO STATUS WORD
0328  00437 170206        STA EQT4,I
0329  00440 126427R       JMP VSTAT,I
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0331*      LINE SLEWING ROUTINE


0333  00441 000000  SLEW  NOP
0334  00442 164214        LDB EQT10,I   LOAD A & B WITH # OF
0335  00443 060001        LDA B          LINES TO SLEW
0336  00444 046471R       ADB ND16      SUB 16 TO SEE IF LINE COUNT
0337  00445 006024        SSB,INB       IS GREATER THAN 15
0338  00446 026454R       JMP SLW1      LE 15 LINES, GO OUTPUT
0339  00447 174214        STB EQT10,I    STORE # OF LINES LEFT TO SLEW
0340  00450 160207        LDA EQT5,I    SET SLEW STATUS
0341  00451 030057        IOR BIT2
0342  00452 170207        STA EQT5,I
0343  00453 060070        LDA D15       SLEW 15 LINES
0344  00454 032500R SLW1  IOR BIT15     SET PAPER COMMAND BIT
0345  00455 016457R       JSB POUT      OUTPUT SLEW CODE
0346  00456 126441R       JMP SLEW,I


0348*      SUBROUTINE TO OUTPUT CONTENTS OF A REGISTER


0350  00457 000000  POUT  NOP
0351  00460 102600        OTA 0         OUTPUT WORD IN A REG
0352  00461 103700        STC 0,C
0353  00462 126457R       JMP POUT,I
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0355*     CONSTANTS

0357  00054          M0001 EQU 54B       OCTAL 1
0358  00071          M0037 EQU 71B       OCTAL 37
0359  00072          M0077 EQU 72B       OCTAL 77
0360  00073          M0177 EQU 73B       OCTAL 177
0361  00463 100001   M1001 OCT 100001
0362  00464 140001   M1401 OCT 140001
0363  00465 017700   M1770 OCT 17700
0364  00466 017777   M1777 OCT 17777
0365  00467 177637   M7637 OCT 177637
0366  00470 177740   M7740 OCT 177740
0367  00045          M7772 EQU 45B       OCTAL 177772
0368  00050          M7775 EQU 50B       OCTAL 177775
0369  00051          M7776 EQU 51B       OCTAL 177776
0370  00075          HIBYT EQU 75B       OCTAL 177400

0372  00055          D2    EQU 55B       DECIMAL 2
0373  00056          D3    EQU 56B       DECIMAL 3
0374  00057          D4    EQU 57B       DECIMAL 4
0375  00061          D6    EQU 61B       DECIMAL 6
0376  00063          D8    EQU 63B       DECIMAL 8
0377  00070          D15   EQU 70B       DECIMAL 15
0378  00471 177760   ND16  DEC -16
0379  00472 177672   ND70  DEC -70
0380  00473 177634   ND100 DEC -100
0381  00067          B100  EQU 67B       OCTAL 100
0382  00474 000200   B200  OCT 200
0383  00475 000603   B603  OCT 603
0384  00476 001100   B1100 OCT 1100
0385  00477 003000   B3000 OCT 3000

0387  00055          BIT1  EQU 55B       OCTAL 2
0388  00057          BIT2  EQU 57B       OCTAL 4
0389  00067          BIT6  EQU 67B       OCTAL 100
0390  00474          BIT7  EQU B200      OCTAL 200
0391  00500 100000   BIT15 OCT 100000

0393  00476          FUN11 EQU B1100     OCTAL 1100
0394  00501 100102   SSAPE OCT 100102
0395  00502 100001   SSLT  OCT 100001
0396  00503 100100   CVFU  OCT 100100
0397  00503          PEJEC EQU CVFU      OCTAL 100100
0398  00500          SUPLT EQU BIT15     OCTAL 100000
0399  00504 000040   BLANK OCT 40        ASCII BLANK CHARACTER
0400  00505 025000   STAR  OCT 25000     HIGH BYTE "*"
0401  00506 030000   DOUBL OCT 30000     HIGH BYTE "0"
0402  00507 030400   EJECT OCT 30400     HIGH BYTE "1"
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```
0404  00000          A       EQU 0          ADDRESS OF A REGISTER
0405  00001          B       EQU 1          ADDRESS OF B REGISTER
0406  00206          EQT4    EQU 206B       EQUIPMENT TABLE ADDRESSES
0407  00207          EQT5    EQU 207B
0408  00213          EQT9    EQU 213B
0409  00214          EQT10   EQU 214B
0410  00215          EQT11   EQU 215B
0411  00216          EQT12   EQU 216B
0412  00217          EQT13   EQU 217B


0414                         END
** NO ERRORS*
```

*A	00404						
APEJM	00113	00107					
B	00405	00091	00094	00139	00240	00281	00289
	00296	00323	00327	00335			
B100	00381	00207	00209	00214			
B1100	00384	00217	00393				
B200	00382	00211	00390				
B3000	00385	00220					
B603	00383	00014					
BIT1	00387	00114					
BIT15	00391	00344	00398				
BIT2	00388	00171	00341				
BIT6	00389	00152					
BIT7	00390	00076	00105	00131			
BLANK	00399	00295					
C,12	00164	00004	00187	00191	00196	00197	
CCSTR	00124	00121					
CKNAM	00276	00133	00297	00298	00299		
CLC2	00185	00221					
CLEAR	00034	00013	00222				
CNTR	00300	00278	00284				
CNTRL	00044	00030					
CVFU	00396	00087	00397				
D15	00377	00343					
D2	00372	00027	00063	00066	00083	00099	
D3	00373	00012	00029	00039	00283		
D4	00374	00060	00096				
D6	00375	00069					

D8 00376 00086

DOUBL 00401 00143

DOUT 00178 00173

DYNAM 00035 00015

EJECT 00402 00141

EOL 00251 00233

EQT10 00409 00049 00127 00129 00136 00137 00234
00267 00334 00339

EQT11 00410 00053 00119 00182

EQT12 00411 00054 00124 00135 00178 00231 00248

EQT13 00412 00111 00118 00147 00157 00251

EQT4 00406 00018 00020 00151 00153 00321 00328

EQT5 00407 00021 00023 00075 00077 00092 00095
00104 00108 00109 00113 00168 00174 00175
00194 00264 00265 00340 00342

EQT9 00408 00010 00025 00044 00130

EXIT0 00159 00073 00149

EXIT2 00099 00048 00059

EXIT4 00096 00036 00078

EXITC 00196 00177

EXL0 00148 00134

EXLC 00195 00180

EXP0 00158 00088 00155

EXPG 00309 00280 00288 00293

FUN11 00393 00046

HIBYT 00370 00140 00294

I,12 00008 00004 00032 00040 00097 00100 00160

L2 00247 00219

LF1 00236 00206

LOAD 00240 00237

LOU1	00244	00210			
LOUT	00230	00148	00195	00253	00268
LP	00226	00202	00204		
LTERM	00157	00126	00144		
M0001	00357	00080			
M0037	00358	00326			
M0077	00359	00026			
M0177	00360	00243			
M1001	00361	00316			
M1401	00362	00315			
M1770	00363	00045			
M1777	00364	00011			
M7637	00365	00019			
M7740	00366	00322			
M7772	00367	00022			
M7775	00368	00093			
M7776	00369	00193			
NAMCT	00308	00277			
ND100	00380	00259			
ND16	00378	00336			
ND70	00379	00057			
NOCOM	00298	00286	00291		
NREDC	00189	00167			
NREDI	00038	00017			
NTAB	00302	00307			
NXTCH	00238	00249			
OUTCH	00246	00216			
PEJCT	00151	00056	00142		

PEJEC	00397	00154					
PEJMC	00090	00065					
POUT	00350	00158	00215	00218	00252	00345	00353
S1	00314	00213					
SETIO	00201	00009	00165	00203	00223		
SETSP	00075	00051					
SLEW	00333	00072	00176	00346			
SLW1	00344	00338					
SSAPE	00394	00117					
SSLT	00395	00115					
STAR	00400	00146					
STAT	00313	00016	00166	00317	00318		
STF	00225	00205					
SUPLT	00398	00110	00145				
TADR	00307	00279					
TCHAR	00271	00258	00269				
TFLAG	00193	00170					
TIM1	00260	00208	00263				
TIM2	00269	00261					
TIME	00257	00245	00250	00270			
TLLEN	00119	00112					
V1,2	00080	00068					
V3,8	00083	00071					
V9,12	00086	00062					
VOUT	00087	00081	00084				
VS1	00324	00212					
VSTAT	00320	00035	00038	00181	00189	00329	
WORD1	00281	00285					

WORD2	00287	00282
WRITE	00104	00028